

SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
KLASS, MICHAEL R.
ROBERTS-RAPP, LISA
RUSSELL, JOHN C.
STROUPE, STEPHEN D.
- (ii) TITLE OF THE INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE PROSTATE
- (iii) NUMBER OF SEQUENCES: 16
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Abbott Laboratories
(B) STREET: 100 Abbott Park Road
(C) CITY: Abbott Park
(D) STATE: IL
(E) COUNTRY: USA
(F) ZIP: 60064-3500
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: 08/838,968
(B) FILING DATE: 23-APR-1997
- (viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Becker, Cheryl L.
(B) REGISTRATION NUMBER: 35,441
(C) REFERENCE/DOCKET NUMBER: 6086.US.01
- (ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 847/935-1729
(B) TELEFAX: 847/938-2623
(C) TELEX:

05065672.043398

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CTAAGGCGTG	CAAACAGAGC	GCCACTGGGA	GGCTGAAACC	TTTAGGCCGA	TGCCTGCTTG	60
CAAGGTCAGG	CAAGCTGGAT	TCTGGTCCCC	ACCTTTGCAG	AGAGAACAGC	GATGTTGTGC	120
GCCCATTCT	CAGATCAAGG	ACCGGCCCAT	CTTACTACCT	CCAAGAGTGC	TTTTCTCTCT	180
AATAAGAAAA	CATCTACTTT	GAAACATCTA	CTGG			214

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GACCAAAACAG	AGCGCCACTG	GGAGGCTGAA	ACCTTTAGGC	CGATGCTTGC	TTGCAAGGTC	60
AGGCAAGCTG	GATTCTGGTC	CCCACCTTTG	CAGAGAGAAC	AGCGATGTTG	TGCGCCCAT	120
TCTCAGATCA	AGGACCGGCC	CATCTTACTA	CCTCCAAGAG	TGCTTTTCTC	TCTAATAAGA	180
AAACATCTAC	TTTGAAACAT	CTACTGGGCG	AGACCAGGAG	TGATGGCTCA	GCCTGTAATT	240
CTGGAATTC	GGGAGGCCGA	GGCAGGAAGA	TTCCTTGAGC	ACAGGAGTTC	CAGACCAGCC	300
TGGGCAATGT	AGCAAGACGC	TGTCTCTATT	TATACAATA			339

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GCAAAACAGAG	CGCCACTGGG	AGGCTGAAAC	CTTTAGGCCG	ATGCTTGCTT	GCAAGGTCAG	60
GCAAGCTGGA	TTCTGGTCCC	CACCTTTGCA	GAGAGAACAG	CGATGTTGTG	CGCCCATTTT	120
TCAGATCAAG	GACCGGCCA	TCTTACTACC	TCCAAGAGTG	CTTTTCTCTC	TAATAAGAAA	180
ACATCTACTT	TGAAACATCT	ACTGG				205

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CTAAGGCGTG	CAAACAGAGC	GCCACTGGGA	GGCTGAAACC	TTTAGGCCGA	TGCCTGCTTG	60
CAAGGTCAGG	CAAGCTGGAT	TCTGGTCCCC	ACCTTTGCAG	AGAGAACAGC	GATGTTGTGC	120
GCCCATTTCT	CAGATCAAGG	ACCGGCCCAT	CTTACTACCT	CCAAGAGTGC	TTTTCTCTCT	180
AATAAGAAAA	CATCTACTTT	GAAACATCTA	CTGGGCGAGA	CCAGGAGTGA	TGGCTCAGCC	240
TGTAATTCTG	GAATTTTCGG	AGGCCGAGGC	AGGAAGATTC	CTTGAGCACA	GGAGTTCCAG	300

09065672 042398

ACCAGCCTGG GCAATGTAGC AAGACGCTGT CTCTATTTAT ACAATA

346

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CTAAGGCGTG	CAAACAGAGC	GCCACTGGGA	GGCTGAAACC	TTTAGGCCGA	TGCTTGCTTG	60
CAAGGTCAGG	CAAGCTGGAT	TCTGGTCCCC	ACCTTTGCAG	AGAGAACAGC	GATGTTGTGC	120
GCCCATTTCT	CAGATCAAGG	ACCGGCCCAT	CTTACTACCT	CCAAGAGTGC	TTTTCTCTCT	180
AATAAGAAAA	CATCTACTTT	GAAACATCTA	CTGGGCGAGA	CCAGGAGTGA	TGGCTCAGCC	240
TGTAATTCTG	GAATTTTCGG	AGGCCGAGGC	AGGAAGATTC	CTTGAGCACA	GGAGTTCAG	300
ACCAGCCTGG	GCAATGTAGC	AAGACGCTGT	CTCTATTTAT	ACAATA		346

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

AGCTCGGAAT	TCCGAGCTTG	GATCCTCTAG	AGCGGCCGCC	GACTAGTGAG	CTCGTCGACC	60
CGGGAATT						68

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

AATTAATTCC	CGGGTCGACG	AGCTCACTAG	TCGGCGGCCG	CTCTAGAGGA	TCCAAGCTCG	60
GAATTCCG						68

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

AGCGGATAAC	AATTTACAC	AGGA	24
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(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: nucleic acid

09065672.042398

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

TGTAAACGA CGGCCAGT

18

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AAACCTTTAG GCCGATGC

18

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

TCCCGAAATT CCAGAATTAC

20

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 57 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Met	Leu	Cys	Ala	His	Phe	Ser	Asp	Gln	Gly	Pro	Ala	His	Leu	Thr	Thr
1				5					10				15		
Ser	Lys	Ser	Ala	Phe	Leu	Ser	Asn	Lys	Lys	Thr	Ser	Thr	Leu	Lys	His
			20					25					30		
Leu	Leu	Gly	Glu	Thr	Arg	Ser	Asp	Gly	Ser	Ala	Cys	Asn	Ser	Gly	Ile
		35					40					45			
Ser	Gly	Gly	Arg	Gly	Arg	Lys	Ile	Pro							
	50					55									

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

09065672-042399

Met Leu Cys Ala His Phe Ser Asp Gln Gly Pro Ala His Leu Thr Thr
 1 5 10 15
 Ser Lys Ser Ala Phe Leu Ser Asn Lys Lys Thr Ser
 20 25

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Thr Leu Lys His Leu Leu Gly Glu Thr Arg Ser Asp Gly Ser Ala Cys
 1 5 10 15
 Asn Ser Gly Ile Ser Gly Gly Arg Gly Arg Lys
 20 25

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Asp Tyr Lys Asp Asp Asp Asp Lys
 1 5

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His
 1 5 10 15
 His His His His His
 20

09065672-042399